

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



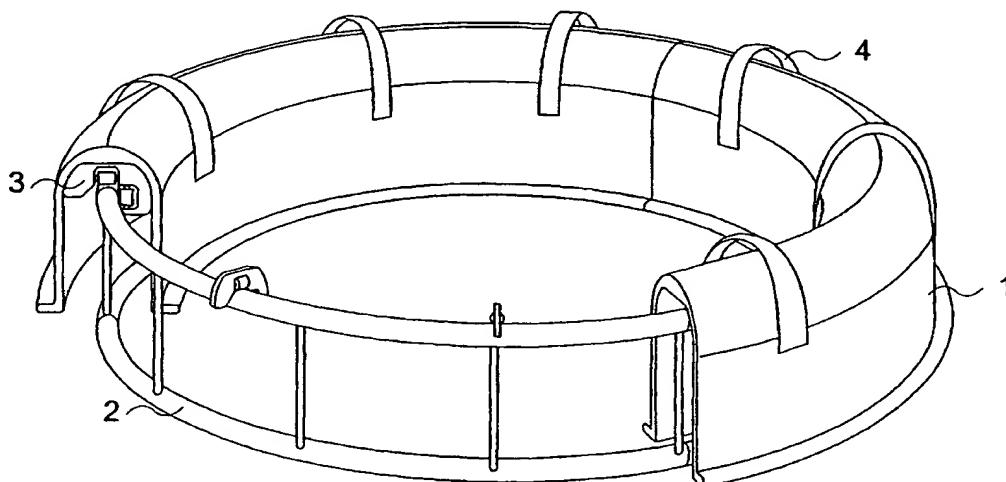
(43) International Publication Date  
21 December 2000 (21.12.2000)

PCT

(10) International Publication Number  
**WO 00/76612 A1**

- (51) International Patent Classification<sup>7</sup>: A63G 1/14 (74) Agent: BOCEK, Josef; Delnická 19, 736 01 Havířov (CZ).
- (21) International Application Number: PCT/CZ99/00030
- (81) Designated States (*national*): CA, DE (utility model), ES (utility model), GB, JP (utility model), PL (utility model), US.
- (22) International Filing Date:  
1 September 1999 (01.09.1999)
- (25) Filing Language: English
- (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).
- (26) Publication Language: English
- (30) Priority Data:  
PUV 9508-99 10 June 1999 (10.06.1999) CZ  
PUV 9734-99 6 August 1999 (06.08.1999) CZ
- Published:  
— With international search report.
- (71) Applicants and  
(72) Inventors: SZCZERBA, Miroslav [CZ/CZ]; Dělnická 15, 736 01 Havíř (CZ). TUŠNER, Josef [CZ/CZ]; Ostrovskeho 30, 736 01 Havířov (CZ). KOVAR, Dalibor [CZ/CZ]; Klimešova 13, 736 01 Havířov (CZ).
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: JOLLY CIRCLE



(57) Abstract: The jolly circle is a multifunctional product characteristic with its upper ring body (1) situated on the lower ring body (2) while the ring bodies (1 and 2) are arranged in a segmental way. Upper ring body travelling part (1) being provided with a guide (3) and situated rotationally on the lower ring body (2). Upper ring body travelling part (1) provided with handles (4). Upper ring body (1) provided with a circular plate or body (5). Ring bodies (1 or 2) provided with a guide. Upper ring body (1) provided with a filler (6). Upper ring body (1) supplemented by a shelter (7). Lower ring body (2) provided by a flexible network (8). Upper ring body (1) or its segments forming elements and/or a form for small architecture elements (9).

WO 00/76612 A1

JOLLY CIRCLE

1

Technology

A technical design related to the jolly circle, which is a multi-functional product for a production of a merry-go-round, swimming-pool, universal turntable, tent, etc.

The Up-to Now Technical Status

The up-to-now known children merry-go-rounds are mostly of huge sizes, electrically driven, designed for amusement parks. Their biggest disadvantage is that the external circular platform on which variously modified children seats are situated is connected with the eccentric rotating mechanism by the means of arms which, in case of a child falling down within the area between the platform and rotating mechanism immediately acts as cutters with all following consequences. Also smaller and small sized children merry-go-rounds are known, the construction of which can cause an injury of children due to their extruding functional parts or arms while rotating against a fixed base.

The existing known designs of children merry-go-rounds are single-purpose facilities providing just the only function. They cannot be easily dismantled and transported.

A Technical Design Substance

The above stated shortages are significantly removed by a jolly circle according to a technical design the substance of which consists in its upper ring body situated on a lower ring body, while the ring bodies are arranged in a segmental way. The travelling part of the upper ring body is provided with a guide and placed in a rotating way on the lower ring body. The travelling part of the ring body is provided with handles. The upper ring body is provided with a circular plate of body. The ring bodies are provided with a guide. The upper ring body is provided with a filler. The upper ring body is supplemented by a shelter. The lower ring body is provided with a flexible network. The upper ring body or its segments create elements and/or a form for the small architecture elements.

The facility according to the technical design, especially the ring parts of the children merry-go-round do not comprise element which could cause any injury due to the rotating movement.

Its advantage consists in the segmential arrangement enabling easy dismantling and assembly to produce various multifunctional facilities. In addition, it allows easy transport to a destination either in the interior or exterior.

#### A Review of Pictures in the Drawing

The respective technical design can be better clarified by the means of a drawing, where Fig. 1 shows a children ring merry-go-round in a partial sectional view, Fig. 2 a, b show a universal turntable, Fig. 3 a, b show a swimming-pool supplemented by a parasol, Fig. 4 a, b show a children tent, shelter or stand, Fig. 5 a, b show a children trampoline, Fig. 6 shows small architecture elements and Fig. 7 shows the arrangement of small architecture elements in the terrain. Fig. 2 a to 5 a show sets of individual products and Fig. 2 b to 5 b show individual products produced from the basic jolly elements according to the technical design.

#### Technical Design Performance Examples

The jolly which is a multifunctional products consists or an upper ring body 1 situated on the lower ring body 2, while the ring bodies 1 and 2 are arranged in a segmential way. The travelling part of the upper ring body 1 is provided with a guide 3 and it is rotationally placed on the lower ring body 2. The upper ring body travelling part 1 is provided with handles 4. The upper ring body 1 is provided with a circular plate of circular body 5 forming a universal turntable 10. The upper ring body 1 is provided with a filler 6 forming a swimming-pool 11 or a place for children playing. The upper ring body 1 is supplemented by a shelter 7 forming a tent 12, shelter, sales stand etc. The lower ring body 2 is provided with a flexible network 8 forming a children trampoline 13. The upper ring body 1 or its segments form elements and/or a form for small architecture production 9.

#### Industrial Applicability

The jolly or its elements according to the technical design is a multifunctional product which can be applied especially as a

children toy, but. simultaneously, also as a promotional area, small architecture elements etc. both in the interior and exterior.

## P R O T E C T I O N   D E M A N D S

1. The jolly is a multifunctional product characteristic with its upper ring body (1) situated on the lower ring body A2) while the ring bodies (1 and 2) are arranged in a segmental way.
2. The jolly according to the demand 1 is characteristic by its upper ring body travelling part (1) being provided with a guide (3) and situated rotationally on the lower ring body (2).
3. The jolly according to the demands 1 and 2 is characteristic by its upper ring body travelling part (1) provided with handles (4).
4. The jolly according to any of the demands 1 to 3 is characteristic by its upper ring body (1) provided with a circular plate or body (5).
5. The jolly according to the demand 4 is characteristic by its ring bodies (1 or 2) provided with a guide.
6. The jolly according to the demand 1 is characteristic by its upper ring body (1) provided with a filler (6).
7. The jolly according to any of the demands 1 to 6 is characteristic by its upper ring body (1) supplemented by a shelter (7).
8. The jolly according to the demand 1 is characteristic by its lower ring body (2) provided by a flexible network (8).
9. The jolly according to the demand 1 is characteristic by its upper ring body (1) or its segments forming elements and/or a form for small architecture elements (9).

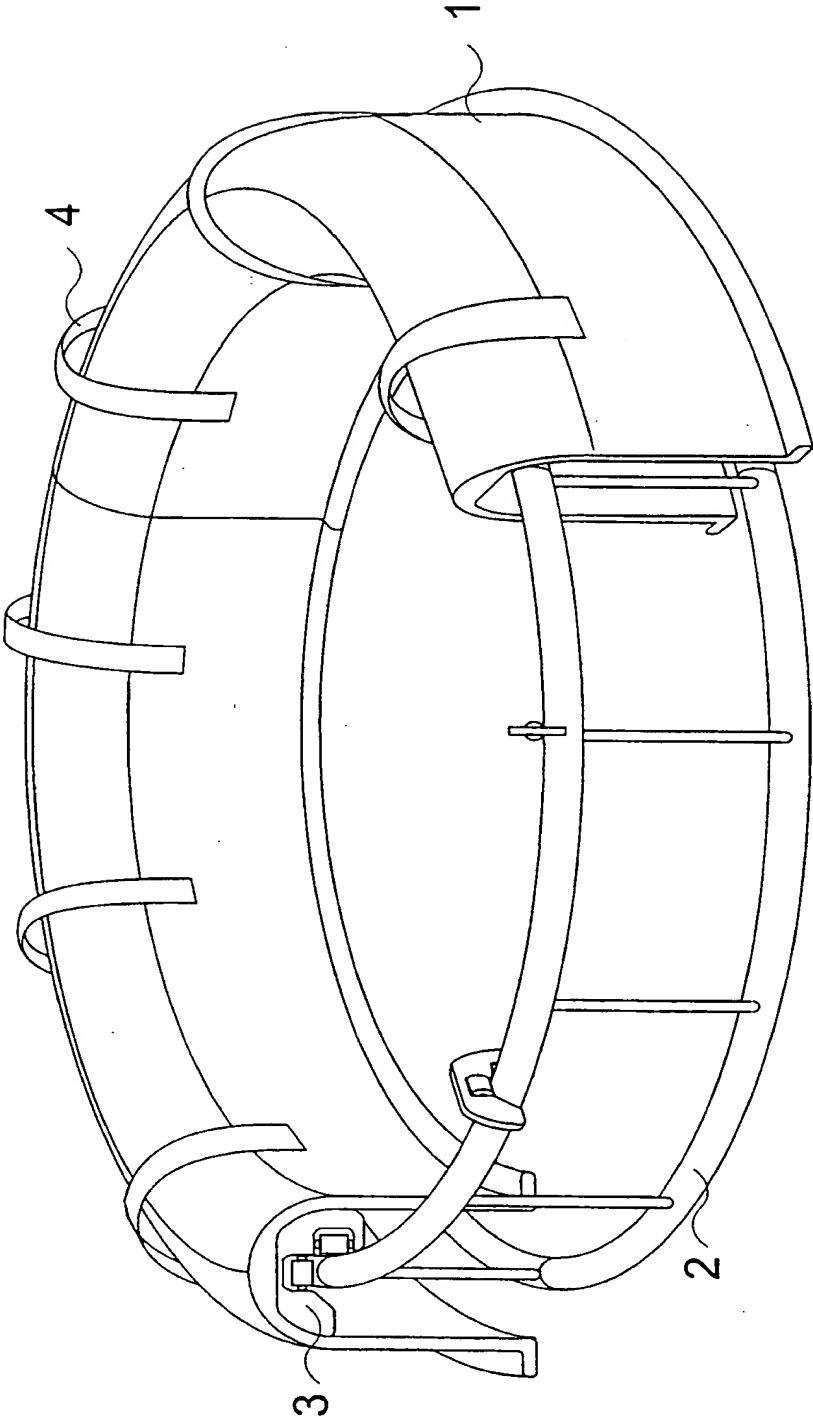


Fig. 1

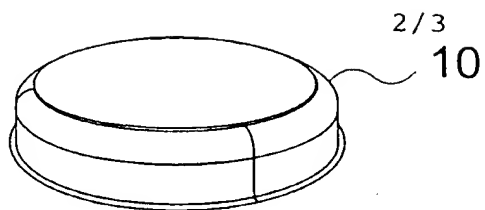


Fig. 2 b

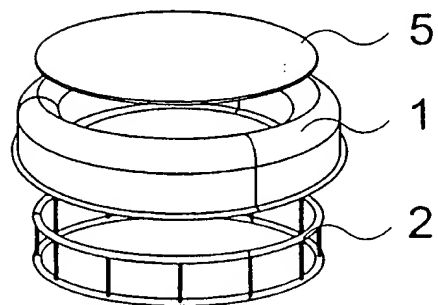


Fig. 2 a

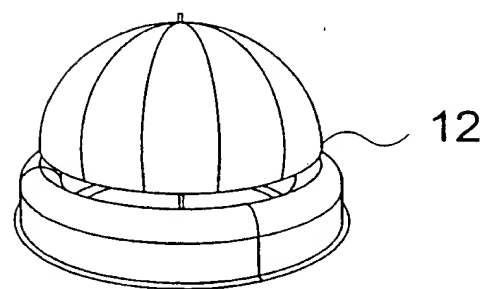


Fig. 4 b

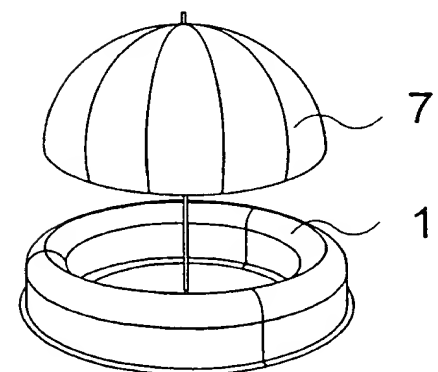


Fig. 4 a

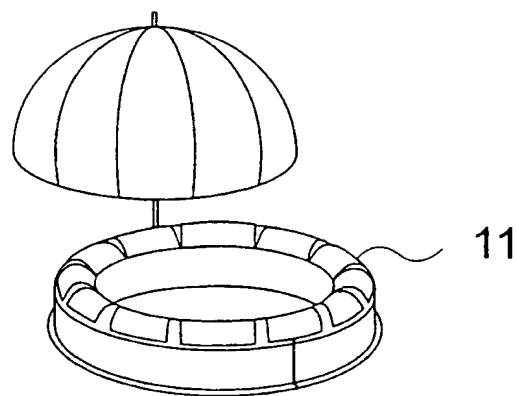


Fig. 3 b

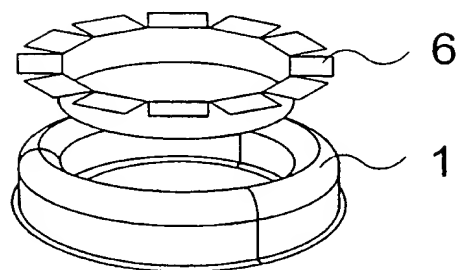


Fig. 3 a

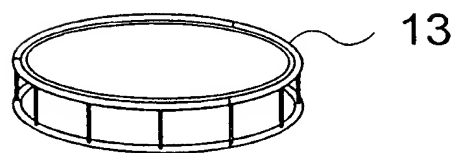


Fig. 5 b

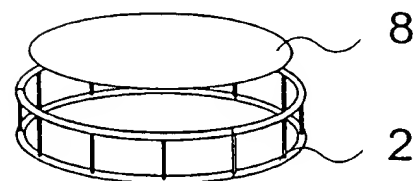


Fig. 5 a

3/3

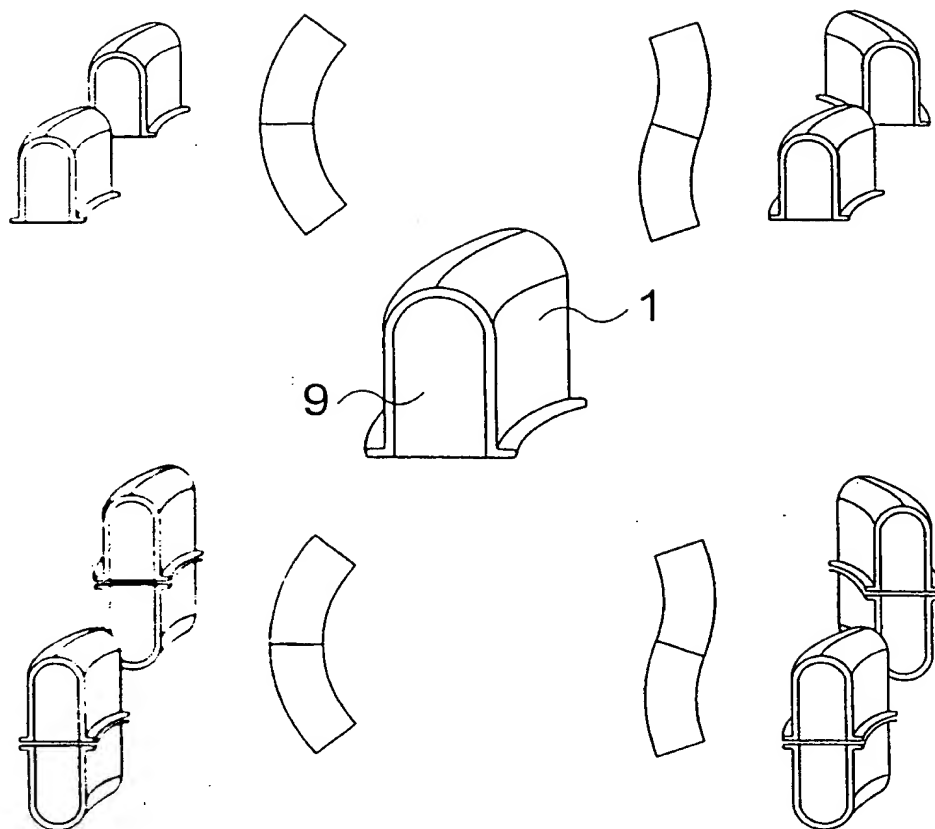


Fig. 6

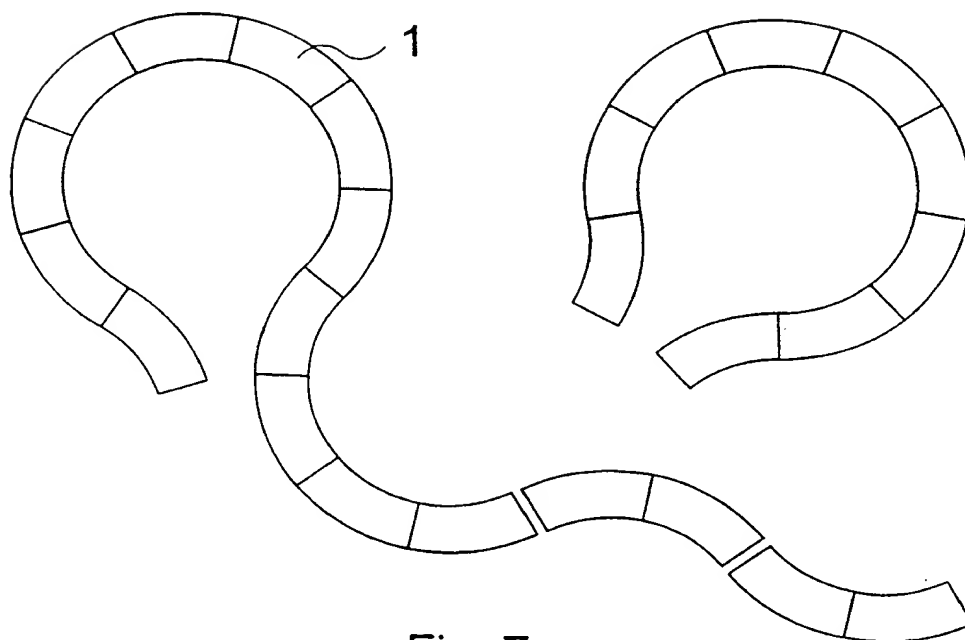


Fig. 7



## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/CZ 99/00030

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 A63G1/14

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A63G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 268 545 A (MARCHAND SPORTS) 21 November 1975 (1975-11-21)	1,3,6,9
Y	the whole document	4,5,7
X	DE 10 10 426 B (GRÜNZIG) 13 June 1957 (1957-06-13)	1-3
X	the whole document	
X	US 2 012 378 A (DITTMAR ET AL) 27 August 1935 (1935-08-27)	1-3,6
	figures	
X	US 2 730 366 A (ETHERINGTON) 10 January 1956 (1956-01-10)	1-3,6
Y	figures	8
	-/--	

**X** Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

7 April 2000

Date of mailing of the international search report

14/04/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Godot, T

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/CZ 99/00030

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FR 654 399 A (ANDERSEN) 4 April 1929 (1929-04-04) figures ----	4,5
Y	US 3 171 651 A (MERDICH ET AL) 2 March 1965 (1965-03-02) column 2, line 30 - line 34; figure 1 ----	7
Y	FR 2 364 675 A (ZUBER ANTOINE) 14 April 1978 (1978-04-14) claim 1; figure 1 ----	8
A	US 1 457 035 A (KOTLIK) 29 May 1923 (1923-05-29) figure 6 -----	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CZ 99/00030

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2268545 A	21-11-1975	NONE	
DE 1010426 B		NONE	
US 2012378 A	27-08-1935	NONE	
US 2730366 A	10-01-1956	NONE	
FR 654399 A	04-04-1929	NONE	
US 3171651 A	02-03-1965	NONE	
FR 2364675 A	14-04-1978	NONE	
US 1457035 A	29-05-1923	NONE	